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09/105,844	06/26/1998	USHA UPADHYAYULA	INTL-0055(P5	6060
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TIMOTHY N	TROP		ALAUBAIDI,	, HAYTHIM J
TROP PRUNEI			ART UNIT PAPER NUMBER	
HOUSTON, T	REEWAY STE 100 X 77024		2171	0//
			DATE MAILED: 01/30/2004	24

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Office Action Summary Application No. (9/105,844 Examiner Hythmi J. Alsubaidi 2171 AT Unit 2171 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE Of THIS Communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE Of THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPR 1.13(8), in no earn-however, may a reply be timely filled after St (8) MONTHS flow in the mide gate of this communication, enjoy with the satisface of this (2) days with the seathery serious of this (2014) and the state of the communication and with the state of the communication of the state							
Examiner	:	Application No.	Applicant(s)				
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2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 43-60 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 43-60 is/are rejected. 7) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 26 June 1998 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a), Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received in Application No. 2. ☐ Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in Application Tome the International Bureau (PCT Rule 17.2(a)). 13. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 21 ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet	 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDON	imely filed sys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
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DETAILED ACTION

- 1. This communication is in response to the amendment filed on October 17, 2003.
- 2. Claims 43-60 are currently presented for examination following the amendment of October 17, 2003.
- 3. Claims 43, 50 and 57 the independent claims.
- 4. Claims 43, 50 and 57 are rejected under 35 U.S.C. 112, <u>first</u> and <u>second</u> paragraphs.
- 5. Claims 43-60, are rejected under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 7. Claims 43, 50 and 57 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter "automatic profile" which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification, including the Applicant support pages cited in the amendment of October 17, 2003, (Page 2, the Summery) do not provide support for the new matter that was added.

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8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claims 43, 50 and 57 recites the limitation "automatic profile". There is insufficient antecedent basis in the Specification for this limitation. The Specification of the current Application, specifically Page 6, Lines 21 through Page 7, Line 10 does mention the generating of a device profile and also generating it in a dynamical way; yet no mention is the Specification about a "automatic profile". The Specification (Page 7, Lines 5-15) does explain the "live" mode, in which it mention an automatic transfer of captured images and not an "automatic profile"

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 43-60, are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirowo Inoue (U.S. Patent No. 6,273,535 and Inoue hereinafter) in view of Kimitaka Murashita (U.S. Patent No. 6,504,950 and Murashita hereinafter) and further in view of Yoshiki Ishii (U.S. Patent No. 6,477,318 and Ishii hereinafter).

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Regarding Claims 43, 49, 50 and 56-58, Inoue discloses:

capturing an image in a digital imaging device¹ (Figure 1; see also Col 3, Lines 67 though Col 4, Line 1) to form a graphical object (Col 2, Lines 5-18, i.e. image forming)

associating graphical object containing image data with said device profile ² (Col 4, Lines 6-11), i.e.

The digital camera 1 **stores** (associate)³ **input-device-unique information unique to the device** (device profile) in a status memory 4. Also, the digital camera 1 hotoelectrically converts an image into an electrical signal using a CCD and the like, **and holds a plurality of images as digital image data in an image memory 5** (image data).

See also (Col 1, Lines 49-54), i.e. A color management system (hereinafter sometimes referred to as the CMS) is a technique for matching color appearance between different input/output devices such as displays, scanners, color printers, etc. Using the CMS, it becomes possible to match color appearance between an image read by a scanner and an image displayed on a display and also between such an image and an image output by a color printer.

See also (Col 16, Lines 43-44), i.e. and presents the <u>pattern image and grayscale image</u> simultaneously for display on the <u>screen</u> of the <u>display device</u> 14.

(Col 17, Lines 1-8), i.e.

As shown in FIG. 3, the pattern image 40 expressed by the <u>pattern image data stored</u> in the pattern image data holding unit 30 and the grayscale image 42 expressed by the <u>grayscale image data stored</u> in the grayscale image data holding unit 32 are presented via the display control unit 31 for display, separately, in different regions but simultaneously on the same screen of the display device 14 in the computer 10 (profile creation apparatus 21).

See also (Col 29, Lines 33-36), i.e.

In the profile creation apparatuses 21, 22, and 23, the data are stored in the pattern image data holding unit 30.

¹ Murashita also disclose digital input/output devices, please see **(Col 1, lines 35-36)**, i.e. image input devices such as scanners.

² Please note that the Examiner would also like to direct the Applicant's attention to citations in Murashita that could be useful.

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see also (Col 4, Lines 11-19), i.e.

At the same time, the digital camera 1 stores the input states of the individual images (image data) held in the image memory 5 and parameters of color processing (device profile)⁴ and the like executed in the digital camera in an image additional information memory 6 as image additional information 11. Such information is stored in a RAM or a nonvolatile RAM, or a magnetic storage medium or magnetooptical recording medium.

Inoue reference discloses all of the claimed subject matter set forth above, except it does not explicitly indicate the step of developing a device profile based at least on the conditions of image capture; and the step of transferring said graphical object and associated device profile from said imaging device. However Murashita teaches developing a device profile based at least on the conditions of image capture (Col 16, Lines 45-49), i.e.

The <u>profile creation</u> apparatus 21 further includes the selection unit 16 (18) which, in accordance with user selection, selects a grayscale image patch of the brightness closest to the brightness of the pattern image displayed on the display device 14

(Col 35, Lines 54-63), i.e.

Further, according to the present invention, a pattern image consisting of a plurality of colors and a grayscale image consisting of a single color are displayed on a display device and, based on the displayed images, the input/output characteristic of the display is obtained, and the profile of the

³ The Examiner is interpreting the "stores" feature in the Inoue reference as "associating" according to the Specification of the current Application (please see Disclosure, Page 4, Line 28).

⁴ The Examiner would like to note that the "parameters of color processing" can also be interpreted to be like the device profile, considering Applicant's Specification of the current Application (please see Page 1, Lines 13-16).

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display is created based on the thus obtained input/output characteristic. This achieves the effect that the profile relating to the color appearance of the display device can be created by the user without using a specialized measuring instrument.

Murashita also teaches transferring said graphical object and associated device profile from said imaging device (Col 32, Lines 41-45; see also Lines 19-21), i.e.

In a system using the Internet, electronic mail (E-mail) is used as a method of sending the ICC profile Ip to the client 106 at the user 116. In this case, the functions of two servers, an http server for the WWW and a mail server (hereinafter called the SMTP server) for transferring mail, must be incorporated in the server 102. Of course, the http server and the SMTP server may be configured as different servers between which data are transferred.

Given the intended broad application of Inoue system, it would have been obvious to a person of ordinary skill in the art at the time of Applicant's invention to modify the teachings of Inoue with the teachings of Murashita to include developing a device profile based at least on the conditions of image capture and transferring said graphical object and associated device profile from said imaging device. As in developing the device profile, Inoue reference suggest in a way, the consideration of "image condition" (Abstract, see also Col 5,Lines18-20, i.e. *color processing parameter 13-15 in the camera, <u>as image sensing conditions</u>) yet the developing of a device profile was not based the condition of the image capture, but instead was based on forming images (Col 20, Lines 43-45), hence one ordinary skill in the art would be motivated to combine the references in order to increase the flexibility of a device*

usage by increasing the compatibility of the device with other systems, such as other output devices.

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The combination of both Inoue and Murashita discloses all of the claimed subject matter set forth above, except it does not explicitly indicate the step of dynamically generating a profile. However Ishii discloses dynamically generating a profile (Abstract, i.e. dynamic image data; see also Col 1, Lines 11-16, i.e. an image recording device and method capable of optimum conversion processing of dynamic picture image data from an input device having variable characteristics, and to a computer-readable memory; see also Col 2, Lines 13-16, i.e. carrying out color management processing in the recording of dynamic image data to a medium; see also Col 3, Lines 38-40, i.e. As an example of color space characteristic data may be adduced profile data representing a conversion characteristic to a different color space).

Given the intended broad application of the combination of both Inoue and Murashita, it would have been obvious to a person of ordinary skill in the art at the time of Applicant's invention to modify the teachings of both Inoue and Murashita with the teachings of Ishii to dynamically generate a device profile especially when using an input device that can generate dynamic image data such as a "video camera" (Ishii, Col 1, Lines 18-36, i.e. video camera; see also automatically; see also Col 4, Lines 6-18): one good reason would be to continuously (dynamically) view an output of the inputted image data on an output device such as, a display screen; also due to the high portability of video cameras the conditions of the image capture, such as the lighting

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conditions, i.e. indoor or outdoor that may change rapidly and to view the output of this video camera with a continuous clear display.

Regarding Claims 44, 51 and 59, Murashita discloses:

storing portion of the associated profile information in a profile file (Figures 51 and 52; see also Col 2, Lines 18-23), i.e. ⁵

As shown in FIGS. 51 and 52, the ICC profile Ip consists of a fixed length 128-byte profile header Ph containing information on the profile itself and information on the target device (input/output device), a variable length tag table Tt indicating what information is stored where, and tag element data Ted of variable length containing actual information.

associating a file name with the profile (Col 2, Lines 43-44), i.e.

The tag element data Ted having the size of 74h is also a Profile Description Tag PDT and contains information (name, etc.) unique to the profile.

communicating the filename to the CMS (Col 30, Lines 32-43), i.e. CMS, see also transmitting unit.

Regarding Claims 45, 52 and 60, Murashita discloses storing a value representative of a color relation between an input color space and a profile color space (Col 10, Lines 1-7), i.e.

In this case, by calculating a plurality of input value versus output value relations based, for example, on the obtained gamma coefficient value, and by creating the profile of the

⁵ Please not that the Examiner is referencing the "Profile Header" as part of the profile information according to the Specification of the current Application, please refer to the Application disclosure, Page 5, Lines 1-7.

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display device by including therein the thus calculated input value versus output value relations, profiles applicable to almost all kinds of display devices can be created.

(Col 26, Lines 60-64), i.e.

Since the ICC profile Ip is capable of storing the relations between the input and output values of the gamma characteristic.

(Col 27, Lines 5-9), i.e.

After completing the measurement for the input values E(x) corresponding to the output values B(y) of the predetermined four points, the relations between the input and output values (see FIG. 27) are stored in the ICC profile Ip.

`Regarding Claims 46-47 and 53-54, Murashita discloses illuminant tag value and white point tag value (Col 2, Lines 45-56), i.e.

The tag element data Ted specified by the next 12-byte tag labeled mediaWhitePointTag (also referred to as wtptTag) wtpt contains CIEXYZ values of white (w). The tag element data Ted specified by the next 12-byte tag labeled redColorantTag (also referred to as rXYZTag) rXYZ contains normalized CIEXYZ values of red (r). The last 12-byte tag labeled redTRCTag (also referred to as rTRCTag) rTRC stores input/output characteristic values of red (r); in the example of FIG. 52, values of 16 points are stored in the last 32 bytes (two bytes for each point). In the CCC profile Ip, the stored CIEXYZ values are normalized with respect to the standard illuminant of D50.

Regarding Claims 48 and 55, Murashita discloses red, green and blue colorant tag values (Figure NO. 54).

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12. Applicant's amendment necessitated the new ground(s) of rejection presented in

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this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire

THREE MONTHS from the mailing date of this action. In the event a first reply is filed

within TWO MONTHS of the mailing date of this final action and the advisory action is

not mailed until after the end of the THREE-MONTH shortened statutory period, then

the shortened statutory period will expire on the date the advisory action is mailed, and

any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date

of the advisory action. In no event, however, will the statutory period for reply expire

later than SIX MONTHS from the date of this final action.

Points of Contact

13. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Haythim J. Alaubaidi whose telephone number is (703)

305-1950. The examiner can normally be reached on Monday - Friday from 8:00 AM to

4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Safet Metjahic, can be reached on (703) 308-1436.

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Any response to this office action should be mailed to:

The Commissioner of Patents and Trademarks, Washington, D.C. 20231 or telefax at our fax number (703) 872-9306.

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, 6th Floor Receptionist, Arlington, Virginia. 22202.

Haythim J. Alaubaidi

Patent Examiner Technology Center 2100 January 26, 2004

> SAFET METJAHIC SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100